

POLYDOROS SX/LX

AX

Maintenance Protocol

POLYDOROS

Generator

Customer:

Address:

Department:

Room:

Contact person:

Telephone:

Cust. specific no.:

Cust. no.:

Date.:

The instructions RX63-055.831.02.02.02 are required for this protocol

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Replaces: RX63-055.832.02.01.02

English

Doc. Gen. Date: 04.05

SIEMENS Office:	
Address:	
Region:	
Country:	
Contact person:	
Tel.:	
CSE in charge:	
Tel.:	

Remarks Regarding the Protocol:

The protocol is valid as proof of quality for **one** check that must be performed on the system / component in one year.

The check must be performed in the specified intervals.

The results of the check are entered in this protocol.

The chapter numbers in front of the checkpoints indicate the corresponding chapters in the particular instructions (see cover page).

The protocol must be completely filled out by the Customer Service Engineer, i.e.:

- All boxes must be filled out. If a box does not apply to the system or if no entry needs to be made, check the "n.a." box.
- Enter the customer number (Cust. No. :) and the date of the check in the header of each page so that each page can be allocated to a customer and to a check date.
- If there are complaints, the IVKs for the component about which a complaint has been made as well as the type of complaint must be entered in the "Open Points" table provided for this. Correction of these open points also must be documented in this table with the date and a signature. If there are no open points, check "No" and document this with the date and a signature.
- If movable components (also test phantoms that are part of the system) that can be used in different systems are used for the check, they must be entered in the "Movable Components" table provided for this.
- The measurement values for the measurements that must be performed during the check must also be entered in the open spaces / tables provided for them.
- After completing the check, Page 3 of this protocol must be filled out and signed.

Further Processing and Archiving of the Protocol

The protocol is a document and thus must be archived. After completing the test, it must be filed in the corresponding register in the "System Owner Manual" binder. If needed, a copy can be handed to the customer.

System:	
Serial No.:	
Software Version:	
Number of the Service Contract:	
Type of Maintenance:	

Evaluating the Condition of the System / Component

The system has no deficiencies. The image quality test resulted in no differences from required reference values.	☐
The system / component has slight deficiencies that have no affect on continued operation of the system. However they should be corrected preventively. The image quality test resulted in no differences from required reference values.	☐
The system / component has serious deficiencies. For safety reasons, continued operation of the system is permitted only after successfully correcting the deficiencies.	☐

After completing all work steps, an evaluation was performed.

Signature: _____

Date: _____

Name: _____

The operator or a person assigned for this has taken note of this evaluation.
(if national regulations require this)

Signature: _____

Date: _____

Name: _____

Explanation of Abbreviations in the Protocol

Abbrev.	Explanation	Abbrev.	Explanation
SI	Safety Inspection	PMF	Preventive Maintenance, Operating Value Check, Function Check
SIE	Electrical Safety Inspection	Q	System Quality, Image Quality
SIM	Mechanical Safety Inspection	QIQ	Image Quality
PM	Preventive Maintenance	QSQ	System Quality Check
PMP	Periodic Preventive Maintenance	SW	Software Maintenance
PMA	Preventive Maintenance Adjustments	CSE	Customer Service Engineer

Additional activities performed

Only activities that are not described in the instructions for the system / component need to be listed.

	Date:		
Additional activities performed:	OK	not OK	n.a.
	☐	☐	☐
	☐	☐	☐
	☐	☐	☐

Open Points:Yes: ☐No: ☐

Signature: _____

Date: Name:

If "Yes", enter the component with the IVK and the open point (only the number) in the table. After completing maintenance, record this in the table.

IVK	Component	Open Points	Completed	
			Date	Signature

Measuring Devices queried electronically:Yes: ☐No: ☐

Signature: _____

Date: Name:

If the measurement devices are queried electronically, for example with a Scout Mobile Device, entry of the measuring devices in the table can be skipped.

Measuring Devices	Type	Serial No.	Date Used	Next Calibration Due

Movable Components:Yes: ☐No: ☐

Signature: _____

Date: Name:

If "Yes", enter the movable component with which the check was performed along with the Serial No. in the table.

Movable components (also test phantoms that are part of the system) are parts that can be used on different systems).

Component	Serial No.

1 Prerequisites / Notes**1.1 Requirements****1.2 Notes****1.2.1 Safety Information****1.2.1.1 General Safety Information****1.2.1.2 Product-specific Safety Information****1.2.2 Product-specific Remarks****1.2.2.1 Notes Regarding Maintenance****1.2.3 General Remarks****1.2.3.1 Maintenance time / interval****1.2.3.2 Tolerance Data****1.2.3.3 Maximum Torque Values in Nm****1.2.3.4 Explanation of Abbreviations in the Maintenance Certificate****1.2.3.5 DHHS Regulations****2 General Visual Check****2.1 Visual Inspection**

- SI Checking the cover panels
SI Required operator documents present
SI Checking the cable corrugated hoses
SI Checking the cable corrugated hoses (of mobile components)
SI Checking the radiation protective panels
SI Checking warning labels

☐	☐	☐
☐	☐	☐
☐	☐	☐
☐	☐	☐
☐	☐	☐
☐	☐	☐

Maintenance of component was performed completely:

Signature: _____

Date: Name: **2.2 Tables and Warning Labels****4 POLYDOROS SX/LX****4.1 Special Requirements****4.2 Inspection and Maintenance****4.2.1 General Information**

PM Cleaning

☐	☐	☐
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4.2.2 Generator Control Console

PM Cleaning

☐☐☐**4.2.3 Error Log**

PM Evaluating the Error Log

☐☐☐**4.2.4 Checking the High Voltage Cables**

SI Check the shielding on the HV cables.

☐☐☐**4.2.5 Replacing the Batteries with PL SX 65/80 with XCU HD Unit, Part No.: 38 27 123**

PMP Battery replacement performed (required annually) with the PL SX 65/80

☐☐☐

Startup Date / Date of Last Replacement

 . .

DD MM YYYY

4.2.6 Direct Technique Radiation Displays

SI Checking the Direct Technique Radiation Displays

☐☐☐**4.2.7 Indirect Technique Radiation Displays**

SI Checking the Indirect Technique Radiation Displays

☐☐☐**4.2.8 IONTOMAT Limit**

SI Checking the IONTOMAT Limit

☐☐☐**4.2.9 Dose Rate IQ Initial Values****4.2.10 Indirect Technique Dose Rate**

QIQ Indirect Technique IQ Initial Values

☐☐☐**4.2.11 Direct Technique Dose Rate**

QIQ Direct Technique IQ Initial Values

☐☐☐**4.2.12 Conditioning the X-Ray Tube(s)**

PMA Conditioning the tube(s) (test shots)

☐☐☐

PM Check of the max. generator power

☐☐☐**4.2.13 IQ Final Test with Indirect Technique**

QIQ IQ Final Test

☐☐☐**4.2.14 IQ Final Test with Direct Technique**

QIQ IQ Final Test

☐☐☐**4.2.15 IONTOMAT Fields**

PM Selecting and checking the sensitivity of the IONTOMAT fields

☐☐☐

PM Checking IONTOMAT linearity

☐☐☐

Maintenance of component was performed completely:

Signature:

Date:

Name:

OK not n.a.
OK

5 Final Work Steps

5.2 Inspection and Maintenance

SIE Performing the Ground Wire Check

☐☐☐

Maintenance of component was performed completely:

Signature:

Date: Name:

6 Changes to Previous Version

Generator Tables

Indirect Technique

Tab. 1 Fluoroscopy kV and mA

	Fluoro kV	mA	No fluoro
Prior to conditioning the tube			☐
After conditioning the tube			

Direct Technique

Tab. 2 Work Station 1

Work Station 1	kV	mAs	not configured
Prior to conditioning the tube			☐
After conditioning the tube			

Tab. 3 Work Station 2

Work Station 2	kV	mAs	not configured
Prior to conditioning the tube			☐
After conditioning the tube			

Tab. 4 Work Station 3

Work Station 3	kV	mAs	not configured
Prior to conditioning the tube			☐
After conditioning the tube			

Tab. 5 Iontomat Fields

Iontomat Fields	Left		Center		Right		not configured
Work Station 1		mAs		mAs		mAs	☐
Work Station 2		mAs		mAs		mAs	☐
Work Station 3		mAs		mAs		mAs	☐

Tab. 6 Linearity

Linearity	0.3 Cu		0.6 Cu		0.9 Cu		not configured
Work Station 1		mAs		mAs		mAs	☐

Cust.-No.: Date:

Protocol

Linearity	0.3 Cu		0.6 Cu		0.9 Cu		not configured
Work Station 2		mAs		mAs		mAs	☐
Work Station 3		mAs		mAs		mAs	☐